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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,921	03/19/2004	Ross Thomas Kaufman	KCC 4995 (K-C 20,357A)	8211
321 SENNIGER PO	7590 04/26/2007 OWERS		EXAM	INER -
ONE METROI	POLITAN SQUARE		HAND, MELANIE JO	
16TH FLOOR ST LOUIS, MO		·	ART UNIT	PAPER NUMBER
			3761	
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MO	ONTHS	04/26/2007	ELECT	RONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 04/26/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspatents@senniger.com

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		Application No.	Applicant(s)			
Office Action Summary		10/804,921	KAUFMAN ET AL.			
		Examiner	Art Unit			
		Melanie J. Hand	3761			
Period f	The MAILING DATE of this communication app or Reply	pears on the cover sheet v	vith the correspondence address			
WHIC - Exte after - If NC - Failt Any	HORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Does not so time may be available under the provisions of 37 CFR 1.1: r SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MC , cause the application to become A	ICATION. Treply be timely filed NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 28 D	<u>ecember 2006</u> .				
2a)[This action is FINAL . 2b)⊠ This	action is non-final.				
3)	Since this application is in condition for allowar	nce except for formal ma	tters, prosecution as to the merits is			
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Disposit	ion of Claims					
4) 🖂	Claim(s) 1-57 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdraw	wn from consideration.				
· · ·	Claim(s) is/are allowed.					
_	6)⊠ Claim(s) <u>1-57</u> is/are rejected.					
•	Claim(s) is/are objected to.	r alaction requirement				
8)[_	Claim(s) are subject to restriction and/o	r election requirement.				
Applicat	ion Papers					
	The specification is objected to by the Examine					
10)	The drawing(s) filed on is/are: a) acc		•			
	Applicant may not request that any objection to the	- · · ·				
111	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	<i>'</i>		•		
11)[The dath of declaration is objected to by the Ex	Karminer, Note the attache	a Office Action of form PTO-132.			
Priority	under 35 U.S.C. § 119					
, —	Acknowledgment is made of a claim for foreign ☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
	1. Certified copies of the priority document					
	2. Certified copies of the priority document					
	3. Copies of the certified copies of the prio application from the International Bureau	=	n received in this National Stage			
*	See the attached detailed Office action for a list		at received			
·	ood the attached detailed office action for a list	o. the defined copies fit	C. Todolfou,			
Attachmei	nt(s)					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		y Summary (PTO-413) o(s)/Mail Date			
3) 🔲 Info	rmation Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of	Informal Patent Application			
Pap	er No(s)/Mail Date	6)	<u> </u>			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 28, 2006 has been entered.

Response to Arguments

Applicant's arguments, see Remarks, filed December 28, 2006, with respect to the rejection(s) of claim(s) 1-57 under 35 U.S.C. 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of a newly found prior art reference.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. (WO 02/23465 A1).

With respect to **claim 1**: Wu teaches a laminate film for use as a laminated outer cover in an absorbent article. Wu teaches by reference to WO 98/23673, to Brink, that the laminated film comprising a biodegradable stretched aliphatic-aromatic copolyester film, the film comprising filler particles and a copolyester comprising from about 2.5-30 mol % (converted from mol%)

based upon 200% total) of aromatic dicarboxylic acid or ester thereof, which overlaps the range of 10 mole% to about 30 mole%; from about 15-42.5 mol% (converted from mol% based upon 200% total) of aliphatic dicarboxylic acid or ester thereof, which overlaps the range of 20 mole% to about 40 mole%, and 50% dihydric alcohol, which falls within the range of from about 30 mole% to about 60 mole% ('673, Page 11, lines 19-25, Page 16, lines 10-12), and wherein the weight average molecular weight of the copolyester is inherently from about 90,000 to about 160,000 Daltons, and wherein the number average molecular weight of the copolyester is inherently from about 35,000 to about 70,000 Daltons, and wherein the glass transition temperature of the copolyester is inherently less than about 0°C. The argument for inherency is based upon the teaching of Wu by reference to Brink of a laminated film having a composition that satisfies the relevant limitations of claim 1. The burden is herein upon applicant to show that the laminated film taught by Wu does not possess a weight average molecular weight, number average molecular weight and glass transition temperature that fall within the respective ranges set forth in claim 1.

Wu does not explicitly teach an absorbent article having a laminated outer cover, however since Wu teaches that the laminate of the instant invention can be used as a laminated outer cover in an absorbent article (Page 7, lines 1-5), it would be obvious to one of ordinary skill in the art to include this laminate in an absorbent article as a laminated outer cover with a reasonable expectation of success.

With respect to claim 2: The filler particles taught by Wu are present in the film in an amount of between 25-60% by weight of the polymer mixture (copolyester + filler particles), which overlaps the range of from about 30% (by weight of film and filler particles) to about 80% (by weight of film and filler particles). (Page 7, lines 19-22, Page 8, lines 9-13)

With respect to **claim 3**: The filler particles taught by Wu are present in the film in an amount of between 25-60% by weight of the polymer mixture (copolyester + filler particles), which includes the range of from about 50% (by weight of film and filler particles) to about 55% (by weight of film and filler particles). (Page 7, lines 19-22, Page 8, lines 9-13)

With respect to claims 4,5: The filler particles are calcium carbonate. (Page 8, line 13)

With respect to claim 6: The filler particles are calcium carbonate, which is by its nature nonporous. (Page 8, line 13)

With respect to claim 7: The copolyester taught by Wu by reference to Brink comprises from about 2.5-30 mol % (converted from mol% based upon 200% total) which overlaps the range of 15 mole% to about 25 mole% of aromatic dicarboxylic acid or ester thereof, from about 25 mole% to about 35% percent of aliphatic dicarboxylic acid or ester thereof, and from about 45 mole% to about 55 mole% dihydric alcohol and wherein the weight average molecular weight of the copolyester is from about 100,000 to about 130,000 Daltons, and wherein the number average molecular weight of the copolyester is from about 40,000 to about 60,000 Daltons. (¶0026)

With respect to claim 8: The copolyester taught by Ning is identical to a copolyester taught by applicant in the claimed invention and thus comprises from about 17.5 mole% to about 22.5 mole% of aromatic dicarboxylic acid or ester thereof, from about from about 15-42.5 mol% (converted from mol% based upon 200% total), which overlaps the range of 27.5 mole% to

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about 32.5 mole% percent of aliphatic dicarboxylic acid or ester thereof, and 50% dihydric alcohol, which falls within the range of from about 47.5 mole% to about 52.5 mole% dihydric alcohol. ('673, Page 11, lines 19-25, Page 16, lines 10-12) The weight average molecular weight of the copolyester taught by Wu by reference to Brink is inherently from about 105,000 to about 120,000 Daltons, and the number average molecular weight of said copolyester taught by Wu is inherently from about 42,000 to about 50,000 Daltons. The support for this inherency argument has been stated *supra* with respect to claim 1.

With respect to **claim 9**: The aromatic dicarboxylic acid or ester thereof taught by Wu is an unsubstituted aromatic dicarboxylic acid. (Page 9, lines 8,9)

With respect to **claim 10**: The aromatic dicarboxylic acid or ester thereof is terephthalic acid. (Page 9, lines 8,9)

With respect to **claims 11,12**: The aliphatic dicarboxylic acid or ester thereof is taught by Wu by reference to Brink to be succinic acid ('673, Page 16, lines 10-12).

With respect to claim 13: The dihydric alcohol is a straight chain diol. (Page 9, lines 11,12)

With respect to claims 14,15: The dihydric alcohol is 1,4-butanediol. (Page 9, lines 11,12)

With respect to **claim 16**: Wu, either alone or by reference to Brink, does not explicitly teach that the film additionally comprises a polyfunctional branching agent. Hale teaches a laminate film with a composition that is substantially identical to that taught by Wu by reference to Brink,

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and teaches that said film is formed using a polyfunctional branching agent. Since both films have a substantially identical composition and therefore seek to solve a similar problem in the art-it-would-be obvious to one of ordinary skill in the art to modify the film taught by Wu so as to include a polyfunctional branching agent with a reasonable expectation of success. ('851, ¶0057)

With respect to claim 17: The polyfunctional branching agent of the combined teaching of Wu and Hale is a material with three or more carboxylic acid functions. ('851, ¶0057) The motivation to combine the devices of Wu and Hale is stated *supra* with respect to claim 16.

With respect to claim 18: The polyfunctional branching agent of the combined teaching of Wu and Hale is trimellitic acid. ('851, ¶0057) The motivation to combine the devices of Wu and Hale is stated *supra* with respect to claim 16.

With respect to **claim 19**: The aromatic dicarboxylic acid is terephthalic acid, the aliphatic dicarboxylic acid is adipic acid, and the dihydric alcohol is 1,4 butanediol (Page 9, lines 6-12)

With respect to claim 20: The filler material is calcium carbonate. (Page 8, lines 12,13)

With respect to **claim 21:** The film has a thickness of between 0.25-10 mils, or 6.35-254 micrometers, which overlaps the range of less than about 250 micrometers. (Page 11, lines 19,20)

With respect to claim 22: The film has a thickness of between 0.25-10 mils, or 6.35-254

micrometers, which overlaps the range of from about 2.5 micrometers to about 130 micrometers (Page 11, lines 19,20)

With respect to claim 23: The laminated film for use as an outercover further comprises a nonwoven material. (Page 7, lines 21,22)

With respect to claim 24: Wu does not teach that the nonwoven is a spunbond nonwoven, however spunbond refers only to the process in which the nonwoven is formed rather than its composition or properties. The limitation of claim 24 is therefore a product-by-process limitation that is not patentable over the prior art of Wu. Rejection under 35 U.S.C. 103 is indicated where prior art discloses product that appears to be either identical with or only slightly different from product claimed in product-by-process claim. See *In re Fitzgerald, Sanders, & Bagheri,* 205 USPQ 594 (CCPA 1980).

With respect to **claim 25**: The nonwoven material has a basis weight of 5-75 gsy, which falls within the range of 3-400 gsm. (Page 11, line 23 – Page 12, line 2)

With respect to claim 26: The film and the nonwoven material are laminated together, but Wu does not teach a specific lamination mode. Adhesive is a lamination means that is well-known in the art, and seeks to solve a similar problem (i.e. create a laminate) therefore it would be obvious to one of ordinary skill in the art to laminate the biodegradable copolymer film taught by Wu to the nonwoven using adhesive with a reasonable expectation of success. (Page 7, lines 21,22)

With respect to **claim 27:** Thermal bonding is a lamination means that is well-known in the art, and seeks to solve a similar problem (i.e. create a laminate) therefore it would be obvious to one - - of ordinary skill in the art to laminate the biodegradable copolymer film taught by Wu to said nonwoven using thermal bonding with a reasonable expectation of success. (Page 7, lines 21,22)

With respect to **claim 28**: Ultrasonic bonding is a lamination means that is well-known in the art, and seeks to solve a similar problem (i.e. create a laminate) therefore it would be obvious to one of ordinary skill in the art to laminate the biodegradable copolymer film taught by Wu to said nonwoven using ultrasonic bonding with a reasonable expectation of success. (Page 7, lines 21,22)

With respect to **claim 29**: Wu teaches that the laminate comprises a nonwoven material, but does not explicitly teach that the laminated material further comprises a bonded carded web. However, spunbond refers only to the process in which the nonwoven is formed rather than its composition or properties. The limitation of claim 24 is therefore a product-by-process limitation that is not patentable over the prior art of Wu. Rejection under 35 U.S.C. 103 is indicated where prior art discloses product that appears to be either identical with or only slightly different from product claimed in product-by-process claim. See *In re Fitzgerald, Sanders, & Bagheri,* 205 USPQ 594 (CCPA 1980).

With respect to claim 30: The laminated outercover further comprises a spunbond-meltblown laminate. (¶0062) however spunbond refers only to the process in which the nonwoven is

formed rather than its composition or properties. The limitation of claim 24 is therefore a product-by-process limitation that is not patentable over the prior art of Wu. Rejection under 35 U.S.C. 103 is indicated where prior art discloses product that appears to be either identical with or only slightly different from product claimed in product-by-process claim. See *In re Fitzgerald*, *Sanders*, & *Baghen*, 205 USPQ 594 (CCPA 1980).

With respect to **claim 31**: The laminated outercover further comprises a spunlace nonwoven. (¶0062) however spunbond refers only to the process in which the nonwoven is formed rather than its composition or properties. The limitation of claim 24 is therefore a product-by-process limitation that is not patentable over the prior art of Wu. Rejection under 35 U.S.C. 103 is indicated where prior art discloses product that appears to be either identical with or only slightly different from product claimed in product-by-process claim. See *In re Fitzgerald, Sanders*, & *Bagheri*, 205 USPQ 594 (CCPA 1980).

With respect to claim 32: The laminate further comprises a polylactic acid-based substrate. (Page 10, lines 5-8)

With respect to claim 33: The film taught by Wu is of a substantially identical composition to that of the claimed invention, thus the film taught by Wu has substantially identical mechanical properties such as bulk modulus, which is a quantifier of hydrostatic pressure resistance, and thus further inherently has a hydrostatic pressure resistance of at least about 60 millibar. The support for this inherency argument is stated *supra* with respect to claim 1.

With respect to claim 34: The film taught by Wu is of a substantially identical composition to

that of the claimed invention, thus the film taught by Wu has substantially identical mechanical

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properties such as bulk modulus, which is a quantifier of hydrostatic pressure resistance, and

thus further inherently has a hydrostatic pressure resistance of at least about 80 millibar. The

support for this inherency argument is stated *supra* with respect to claim 1.

With respect to claim 35: The film taught by Wu is of a substantially identical composition to

that of the claimed invention, thus the film taught by Wu has substantially identical mechanical

properties such as bulk modulus, which is a quantifier of hydrostatic pressure resistance, and

thus further inherently has a hydrostatic pressure resistance of at least about 120 millibar. The

support for this inherency argument is stated *supra* with respect to claim 1.

With respect to claim 36: The film taught by Wu is of a substantially identical composition to

that of the claimed invention, thus the film taught by Wu has substantially identical mechanical

properties such as bulk modulus, which is a quantifier of hydrostatic pressure resistance, and

thus further inherently has a hydrostatic pressure resistance of at least about 180 millibar. The

support for this inherency argument is stated supra with respect to claim 1.

With respect to claim 37: The film has a water vapor transmission rate of greater than 1,000

g/m2/day, which overlaps the range of at least about 2,000 g/m2/day. (Page 7, lines 13,14)

With respect to claim 38: The film has a water vapor transmission rate of greater than 1,000

g/m2/day, which overlaps the range of at least about 5,000 g/m2/day. (Page 7, lines 13,14)

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With respect to claim 39: The film has a water vapor transmission rate of greater than 1,000

g/m2/day, which overlaps the range of at least about 10,000 g/m2/day. (Page 7, lines 13,14)

With respect to claim 40: The film has a water vapor transmission rate of about 3,500 g/m2/day,

which overlaps the range of at least about 25,000 g/m2/day. (Page 7, lines 13,14)

With respect to claim 41: The film inherently has a modulus of elasticity of from about 50 MPa

to about 250 MPa. The support for this inherency argument is stated supra with respect to claim

1.

With respect to claim 42: The film has a modulus of elasticity of from about 70 MPa to about

150 MPa. The support for this inherency argument is stated supra with respect to claim 1.

With respect to claim 43: The film has a modulus of elasticity of from about 80 MPa to about

100 MPa. The support for this inherency argument is stated supra with respect to claim 1.

With respect to claim 44: The film can inherently be stretched in the machine direction and not

break until from about 15% strain to about 100% strain is reached. The support for this

inherency argument is stated supra with respect to claim 1.

With respect to claim 45: The film can inherently be stretched in the machine direction and not

break until from about 20% strain to about 60% strain is reached. The support for this inherency

argument is stated *supra* with respect to claim 1.

With respect to **claim 46**: The film can inherently be stretched in the machine direction and not break until from about 30% strain to about 50% strain is reached. The support for this inherency argument is stated *supra* with respect to claim 1.

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With respect to claim 47: The film can inherently be stretched in the cross direction and not break until from about 150% strain to about 500% strain is reached. The support for this inherency argument is stated *supra* with respect to claim 1.

With respect to claim 48: The film can inherently be stretched in the cross direction and not break until from about 175% strain to about 400% strain is reached. The support for this inherency argument is stated *supra* with respect to claim 1.

With respect to **claim 49**: The film can be inherently stretched in the cross direction and not break until from about 200% strain to about 300% strain is reached. The support for this inherency argument is stated *supra* with respect to claim 1.

With respect to **claim 50**: The film inherently has a break stress of from about 10 MPa to about 50 MPa. The support for this inherency argument is stated *supra* with respect to claim 1.

With respect to claim 51: The film inherently has a break stress of from about 15 MPa to about 40 MPa. The support for this inherency argument is stated *supra* with respect to claim 1.

With respect to claim 52: The film has a break stress of from about 25 MPa to about 35 MPa.

The support for this inherency argument is stated *supra* with respect to claim 1.

With respect to claim 53: Wu teaches that the articles with which the film can be used includes diapers.

With respect to claim 54: Wu teaches a laminate for use in an absorbent article as a laminated outer cover, the laminated outer cover comprising a biodegradable stretched aliphatic-aromatic copolyester film, the film comprising filler particles and a copolyester by reference to Brink, the film comprising filler particles and a copolyester comprising from about 2.5-30 mol % (converted from mol% based upon 200% total) of terephthalic acid, which overlaps the range of 10 mole% to about 30 mole%; from about 15-42.5 mol% (converted from mol% based upon 200% total) of adipic acid, which overlaps the range of 20 mole% to about 40 mole%, and 50% 1,4-butanediol, which falls within the range of from about 30 mole% to about 60 mole% ('673, Page 11, lines 19-25, Page 16, lines 10-12), and wherein the weight average molecular weight of the copolyester is inherently from about 90,000 to about 160,000 Daltons, and wherein the number average molecular weight of the copolyester is inherently from about 35,000 to about 70,000 Daltons, and wherein the glass transition temperature of the copolyester is inherently less than about 0°C. The argument for inherency is based upon the teaching of Wu by reference to Brink of a laminated film having a composition that satisfies the relevant limitations of claim 1. The burden is herein upon applicant to show that the laminated film taught by Wu does not possess a weight average molecular weight, number average molecular weight and glass transition temperature that fall within the respective ranges set forth in claim 54.

Wu does not explicitly teach an absorbent article having a laminated outer cover, however since Wu teaches that the laminate of the instant invention can be used as a laminated

outer cover in an absorbent article (Page 7, lines 1-5), it would be obvious to one of ordinary skill in the art to include this laminate in an absorbent article as a laminated outer cover with a reasonable expectation of success.

With respect to claim 55: The filler particles taught by Wu are present in the film in an amount of between 25-60% by weight of the polymer mixture (copolyester + filler particles), which overlaps the range of from about 30% (by weight of film and filler particles) to about 70% (by weight of film and filler particles). (Page 7, lines 19-22, Page 8, lines 9-13)

With respect to claims 56,57: The filler particles are calcium carbonate. (Page 8, line 13)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie J. Hand whose telephone number is 571-272-6464. The examiner can normally be reached on Mon-Thurs 8:00-5:30, alternate Fridays 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tatyana Zalukaeva can be reached on 571-272-1115. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Melanie J Hand Examiner Art Unit 3761

March 26, 2007

TATYANA ZALUKAEVA SUPERVISORY PRIMARY EXAMINER